

# United States Patent and Trademark Office

UNITED STATES DEPARTMENT OF COMMERCE United States Patent and Trademark Office Address: COMMISSIONER FOR PATENTS P.O. Box 1450 Alexandria, Virginia 22313-1450 www.uspto.gov

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/681,584	10/08/2003	Marcos Karnezos	CPAC 1029-7	6868
22470	7590 08/04/2005		EXAMINER .	
HAYNES I	BEFFEL & WOLFELI	CHAMBLISS, ALONZO		
P O BOX 366 HALF MOON BAY, CA 94019			ART UNIT	PAPER NUMBER
			2814	
			DATE MAILED: 08/04/2005	

Please find below and/or attached an Office communication concerning this application or proceeding.

<u> </u>					
• •	Application No.	Applicant(s)			
Office Action Summary	10/681,584	KARNEZOS, MARCOS			
omee Action Summary	Examiner	Art Unit			
The MAILING DATE of this communication appe	Alonzo Chambliss	2814			
Period for Reply					
A SHORTENED STATUTORY PERIOD FOR REPLY THE MAILING DATE OF THIS COMMUNICATION.  - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication.  - If the period for reply specified above is less than thirty (30) days, a reply if NO period for reply specified above, the maximum statutory period with the period for reply within the set or extended period for reply will, by statute, Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	6(a). In no event, however, may a reply be tim within the statutory minimum of thirty (30) days ill apply and will expire SIX (6) MONTHS from cause the application to become ABANDONE	rely filed s will be considered timely. the mailing date of this communication. O (35 U.S.C. § 133).			
Status					
<ol> <li>Responsive to communication(s) filed on <u>23 June 2005</u>.</li> <li>This action is FINAL. 2b)⊠ This action is non-final.</li> <li>Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i>, 1935 C.D. 11, 453 O.G. 213.</li> </ol>					
<b>Disposition of Claims</b>	·				
4) ☐ Claim(s) 1-11,21 and 22 is/are pending in the a 4a) Of the above claim(s) is/are withdraw 5) ☐ Claim(s) is/are allowed. 6) ☐ Claim(s) 1-11,21 and 22 is/are rejected. 7) ☐ Claim(s) is/are objected to. 8) ☐ Claim(s) are subject to restriction and/or	n from consideration.				
Application Papers					
9) The specification is objected to by the Examiner.  10) The drawing(s) filed on 29 April 2005 is/are: a)  Applicant may not request that any objection to the d  Replacement drawing sheet(s) including the correction.  11) The oath or declaration is objected to by the Examiner.	☑ accepted or b)☐ objected to be rawing(s) be held in abeyance. See on is required if the drawing(s) is objected.	37 CFR 1.85(a). ected to. See 37 CFR 1.121(d).			
Priority under 35 U.S.C. § 119					
12) Acknowledgment is made of a claim for foreign p a) All b) Some * c) None of:  1. Certified copies of the priority documents 2. Certified copies of the priority documents 3. Copies of the certified copies of the priority application from the International Bureau * See the attached detailed Office action for a list of	have been received. have been received in Application by documents have been received (PCT Rule 17.2(a)).	on No d in this National Stage			
Attachment(s)					
Notice of References Cited (PTO-892)     Notice of Draftsperson's Patent Drawing Review (PTO-948)	4) 🔲 Interview Summary ( Paper No(s)/Mail Dat				
3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date 4/29/05.		atent Application (PTO-152)			

### **DETAILED ACTION**

1. The amendment filed on 6/23/05 has been fully considered and made of record in the instant application.

## Response to Arguments

2. Applicant's arguments with respect to claims 1-11, 21, and 22 have been considered but are most in view of the new ground(s) of rejection.

## Claim Objections

3. Claims 21 and 22 are objected to under 37 CFR 1.75(c), as being of improper dependent form for failing to further limit the subject matter of a previous claim.

Applicant is required to cancel the claim(s), or amend the claim(s) to place the claim(s) in proper dependent form, or rewrite the claim(s) in independent form. Claim 21 and 22 both recite same structure of the multi-package module.

## Double Patenting

4. The nonstatutory double patenting rejection is based on a judicially created doctrine grounded in public policy (a policy reflected in the statute) so as to prevent the unjustified or improper timewise extension of the "right to exclude" granted by a patent and to prevent possible harassment by multiple assignees. See *In re Goodman*, 11 F.3d 1046, 29 USPQ2d 2010 (Fed. Cir. 1993); *In re Longi*, 759 F.2d 887, 225 USPQ 645 (Fed. Cir. 1985); *In re Van Ornum*, 686 F.2d 937, 214 USPQ 761 (CCPA

Application/Control Number: 10/681,584

Art Unit: 2814

1982); In re Vogel, 422 F.2d 438, 164 USPQ 619 (CCPA 1970);and, In re Thorington, 418 F.2d 528, 163 USPQ 644 (CCPA 1969).

A timely filed terminal disclaimer in compliance with 37 CFR 1.321(c) may be used to overcome an actual or provisional rejection based on a nonstatutory double patenting ground provided the conflicting application or patent is shown to be commonly owned with this application. See 37 CFR 1.130(b).

Effective January 1, 1994, a registered attorney or agent of record may sign a terminal disclaimer. A terminal disclaimer signed by the assignee must fully comply with 37 CFR 3.73(b).

5. Claims 1-11, 21, and 22 are provisionally rejected under the judicially created doctrine of obviousness-type double patenting as being unpatentable over claim 1 of copending Application No. 10/681,734. Although the conflicting claims are not identical, they are not patentably distinct from each other because the instant application and application 10/681,734 both recite an inverted second package (i.e. upper package) stacked on a first package (i.e. lower package).

This is a <u>provisional</u> obviousness-type double patenting rejection because the conflicting claims have not in fact been patented.

6. Claims 1-11, 21, and 22 are provisionally rejected under the judicially created doctrine of obviousness-type double patenting as being unpatentable over claim 1 of copending Application No. 10/681,735. Although the conflicting claims are not identical, they are not patentably distinct from each other because the instant application and application 10/681,735 both recite an inverted second package (i.e. upper package) stacked on a first package (i.e. lower package).

This is a <u>provisional</u> obviousness-type double patenting rejection because the conflicting claims have not in fact been patented.

Art Unit: 2814

7. Claims 1-11, 21, and 22 are provisionally rejected under the judicially created doctrine of obviousness-type double patenting as being unpatentable over claim 1 of copending Application No. 10/681,572. Although the conflicting claims are not identical, they are not patentably distinct from each other because the instant application and application 10/681,572 both recite an inverted second package (i.e. upper package) stacked on a first package (i.e. lower package).

This is a <u>provisional</u> obviousness-type double patenting rejection because the conflicting claims have not in fact been patented.

8. Claims 1-11, 21, and 22 are provisionally rejected under the judicially created doctrine of obviousness-type double patenting as being unpatentable over claim 1 of copending Application No. 10/681,583. Although the conflicting claims are not identical, they are not patentably distinct from each other because the instant application and application 10/681,583 both recite an inverted second package (i.e. upper package) stacked on a first package (i.e. lower package).

This is a <u>provisional</u> obviousness-type double patenting rejection because the conflicting claims have not in fact been patented.

9. Claims 1-11, 21, and 22 rejected under the judicially created doctrine of obviousness-type double patenting as being unpatentable over claim 1 of U.S. Patent No. 6,906,416. Although the conflicting claims are not identical, they are not patentably distinct from each other because instant application and the patent both recite an inverted second package (i.e. upper package) stacked on a first package (i.e. lower package).

## Allowable Subject Matter

10. Claim 6 is objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

The following is a statement of reasons for the indication of allowance subject matter: the prior art of record does not teach or suggest the combination of the second package substrate is a bump chip carrier type package substrate in claim 6.

The prior art made of record and not relied upon is cited primarily to show the process of the instant invention.

#### Conclusion

11. Any inquiry concerning the communication or earlier communications from the examiner should be directed to Alonzo Chambliss whose telephone number is (571) 272-1927.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the Group receptionist whose telephone number is (703) 308-7956

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system Status information for published applications may be obtained from either Private PMR or Public PMR. Status information for unpublished applications is available through Private PMR only. For more information about the PMR system see http://pair-dkect.uspto.gov. Should you

Art Unit: 2814

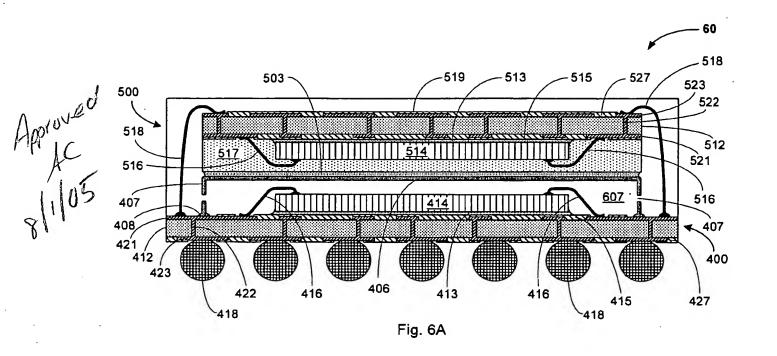
have questions on access to the Private PMR system contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free) or EBC\_Support@uspto.gov.

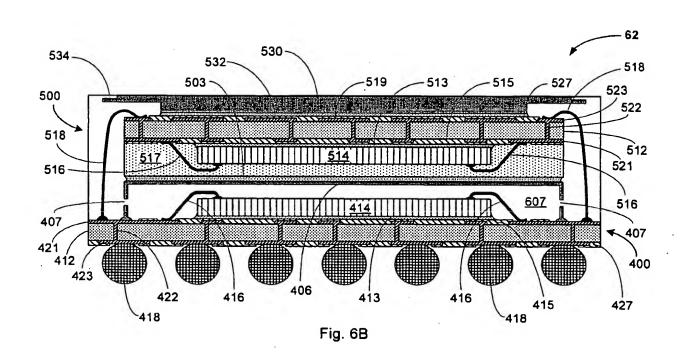
AC/August 1, 2005

Alonzo Chambliss Primary Patent Examiner Art Unit 2814

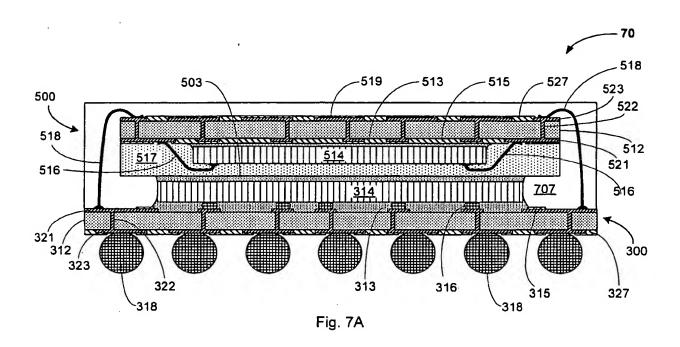
#### Replacement Sheet

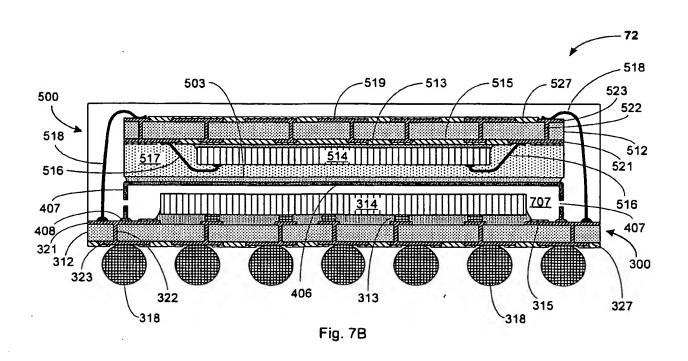




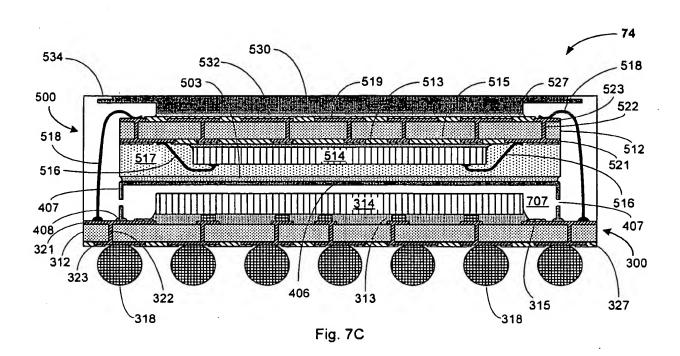


### Replacement Sheet





### Replacement Sheet



#### Replacement Sheet

